

Materials Design Analysis Reporting (MDAR) Checklist for Authors

The MDAR framework establishes a minimum set of requirements in transparent reporting applicable to studies in the life sciences (see Statement of Task: [doi:10.31222/osf.io/9sm4x](https://doi.org/10.31222/osf.io/9sm4x)). The MDAR checklist is a tool for authors, editors and others seeking to adopt the MDAR framework for transparent reporting in manuscripts and other outputs. Please refer to the MDAR Elaboration Document for additional context for the MDAR framework.

Materials

Antibodies	Yes (indicate where provided: section/paragraph)	n/a
For commercial reagents, provide supplier name, catalogue number and RRID, if available.	Not used	
Cell materials	Yes (indicate where provided: section/paragraph)	n/a
Cell lines: Provide species information, strain. Provide accession number in repository OR supplier name, catalogue number, clone number, OR RRID	Mouse immortalized fibroblasts NIH3T3 and human breast adenocarcinoma cells MDA-MB-231 were from American Type Culture Collection (USA). Reported in "Methods", pag. 4, section Methods	
Primary cultures: Provide species, strain, sex of origin, genetic modification status.	Not used	
Experimental animals	Yes (indicate where provided: section/paragraph)	n/a
Laboratory animals: Provide species, strain, sex, age, genetic modification status. Provide accession number in repository OR supplier name, catalogue number, clone number, OR RRID	Not used	
Animal observed in or captured from the field: Provide species, sex and age where possible	Not used	
Model organisms: Provide Accession number in repository (where relevant) OR RRID	Not used	
Plants and microbes	Yes (indicate where provided: section/paragraph)	n/a
Plants: provide species and strain, unique accession number if available, and source (including location for collected wild specimens)	<i>Petroselinum crispum</i> fresh leaves were collected in Val d'Orcia (42°56'02"N 11°38'17"E Tuscany, Italy). Reported in <i>Petroselinum crispum extract (Pcex)</i> , pag. 5	
Microbes: provide species and strain, unique accession number if available, and source	Salmonella typhimurium strains TA98 and TA100 for Ames test were supplied from Xenometrix (Switzerland).. Reported in "Methods", pag.4-5	
Human research participants	Yes (indicate where provided: section/paragraph)	n/a
Identify authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	Human research participants have not been used	
Provide statement confirming informed consent obtained from study participants.	-	
Report on age and sex for all study participants.	-	

Design

Study protocol	Yes (indicate where provided: section/paragraph)	n/a
For clinical trials, provide the trial registration number OR cite DOI in manuscript.	Clinical trials are not reported in the paper	
Laboratory protocol	Yes (indicate where provided: section/paragraph)	n/a
Provide DOI or other citation details if detailed step-by-step protocols are available.	doi: 10.1016/j.joim.2019.02.004 doi: 10.1002/cmdc.201700759	
Experimental study design (statistics details)	Yes (indicate where provided: section/paragraph)	n/a
State whether and how the following have been done, or if they were not carried out.	Multiple comparisons were performed by one-way ANOVA and individual differences tested by Fisher's test after the demonstration of significant intergroup differences by ANOVA. Differences with $p < 0.05$ were considered significant. Reported in "Statistical analysis", pag. 10, section Methods	
Sample size determination	Dilution of extract solutions	
Randomisation	No	
Blinding	No	
Inclusion/exclusion criteria	No	
Sample definition and in-laboratory replication	Yes (indicate where provided: section/paragraph)	n/a
State number of times the experiment was replicated in laboratory	All assays were carried out in six replicates and their results were expressed as mean \pm standard deviation. Reported in section Statistical analysis, pag. 10	
Define whether data describe technical or biological replicates	Data describe both technical and biological replicates	
Ethics	Yes (indicate where provided: section/paragraph)	n/a
Studies involving human participants: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No human participants involved in the study	
Studies involving experimental animals: State details of authority granting ethics approval (IRB or equivalent committee(s), provide reference number for approval.	No experimental animals involved in the study	
Studies involving specimen and field samples: State if relevant permits obtained, provide details of authority approving study; if none were required, explain why.	The study reported not involved specimen and field samples.	
Dual Use Research of Concern (DURC)	Yes (indicate where provided: section/paragraph)	n/a
If study is subject to dual use research of concern, state the authority granting approval and reference number for the regulatory approval	The study is not subject to dual research.	

Analysis

Attrition	Yes (indicate where provided: section/paragraph)	n/a
State if sample or data point from the analysis is excluded, and whether the criteria for exclusion were determined and specified in advance.	No sample was excluded.	
Statistics	Yes (indicate where provided: section/paragraph)	n/a
Describe statistical tests used and justify choice of tests.	Multiple comparisons by one-way ANOVA and individual differences tested by Fisher's test. The tests were used because most suitable for this kind of experiments. Reported in "Statistical analysis", pag. 10	
Data Availability	Yes (indicate where provided: section/paragraph)	n/a
State whether newly created datasets are available, including protocols for access or restriction on access.	No newly created datasets are available.	
If data are publicly available, provide accession number in repository or DOI or URL.	-	
If publicly available data are reused, provide accession number in repository or DOI or URL, where possible.	-	
Code Availability	Yes (indicate where provided: section/paragraph)	n/a
For all newly generated code and software essential for replicating the main findings of the study:	No	
State whether the code or software is available.	-	
If code is publicly available, provide accession number in repository, or DOI or URL.	-	

Reporting

Adherence to community standards	Yes (indicate where provided: section/paragraph)	n/a
MDAR framework recommends adoption of discipline-specific guidelines, established and endorsed through community initiatives. Journals have their own policy about requiring specific guidelines and recommendations to complement MDAR.	The information are provided at the following pages: 4 and 13	
State if relevant guidelines (eg., ICMJE, MIBBI, ARRIVE) have been followed, and whether a checklist (eg., CONSORT, PRISMA, ARRIVE) is provided with the manuscript.	ICMJE guidelines were followed, as the journal follows ICMJE recommendations for publication	

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